Assistant Professor of Anatomy

The Department of Biomedical Sciences in the Ontario Veterinary College at the University of Guelph invites applications for a tenure-track position at the Assistant Professor level.

Applicants must have a PhD degree and must have a minimum of 2 years of postdoctoral experience. Preference will be given to applicants with a PhD in Anatomy (or a related/equivalent field), with a strong background and demonstrated excellence in both classroom and laboratory teaching in gross anatomy. Experience with cadaveric laboratory teaching and cadaveric dissection is essential, and experience with course development would be advantageous. Active participation or engagement in independent and collaborative research activities is required, particularly related to the fields of biomedical sciences. Teaching experience in other fields of anatomy such as embryology and histology or having a DVM would be an asset. Lastly, candidates must demonstrate managerial and organizational skills, a proven ability to work in a team, and excellent communication skills in English (written & verbal). Applicants with an established record of success in research, teaching, including graduate or undergraduate student supervision, and evidence of leadership skills are encouraged to apply. Applicants who have demonstrated innovation, creativity or used digital technology in their teaching are also encouraged to apply. In addition to courses in the DVM and BSc programs, the Department offers graduate course-based Masters, and thesis-based MSc and PhD programs in each of the departmental discipline fields.

The successful candidate will work in a collaborative atmosphere among faculty with a research focus in Neuroscience, Cardiovascular physiology, Cancer biology, Reproductive and Developmental biology, Pharmacology and Toxicology. In particular, our department has recognized expertise in an emerging field of Regenerative and Stem Cell medicine, and thus applicants with this skill set are encouraged to apply. Establishment of an independent research program consistent with the research goals of the Department and College is expected. They will independently acquire sufficient funds to support training of graduate students at the MSc and PhD level.

Anatomist:

Research (40% effort)
- Demonstrated or potential ability to develop independent and collaborative research programs as demonstrated by publication or other research outputs
- Demonstrated or potential ability to serve as advisor or advisory committee member for graduate students in Biomedical Sciences MSc, PhD and MBS programs
- Demonstrated or potential ability to attract extramural private or public sector research funding
- Knowledge of Tri-Council and other sources of research funding
- Evidence of the ability to sustain and grow a creative and ambitious research program
- Collaborative ability/potential or willingness to share resources (space/equipment) and ideas
- Ability to consult, lead and organize collaborative research efforts and work in a team
- Willingness to participate in common departmental objectives (teaching and research)

Undergraduate Teaching (50% effort).
- Demonstrated or potential ability to coordinate a course in Veterinary Anatomy (VETM*3070)
- Interest in or demonstration of innovation and creativity related to teaching/learning issues – the scholarly aspects of teaching/learning

Service (10% effort)
- Ability to participate in important departmental, college and university committees
- Ability to provide service to the profession (manuscript and grant review, editorial work, consulting, etc)
- Ability to provide service and outreach activity within one's community (elevate the reputation of the department, college and university)

Application deadline: February 18th, 2021. Assessment of applications will begin on March 8th, 2021 and will continue until the position is filled. Interested applicants should submit the following materials (preferably as a single PDF file): (1) a cover letter; (2) a curriculum vitae; names and contact information of references. Applications should be sent to the attention of:

Dr. Tarek Saleh
Professor and Chair
Department of Biomedical Sciences
University of Guelph
Guelph, ON N1G 2W1
tsaleh@uoguelph.ca

All qualified applicants are encouraged to apply; however, Canadians and permanent residents will be given priority.

The University recognizes that applicants may have had obligations outside of work that have negatively impacted their record of achievements (e.g., parental, elder care, and/or medical). You are not required to disclose these obligations in the hiring process. If you choose to do so, the University will ensure that these obligations do not negatively impact the assessment of your qualifications for the position.
Established in 1862, the Ontario Veterinary College (OVC) at the University of Guelph is at the forefront of veterinary medicine. As the oldest veterinary college in North America, OVC has been preparing veterinarians to meet the needs of animal care givers for more than 155 years. One-third of veterinarians in Canada have graduated from the Doctor of Veterinary Medicine program at OVC.

One of the founding colleges of the University of Guelph, OVC is the only veterinary college in Ontario and it is an integral part of one of Canada’s most highly regarded comprehensive universities. Our graduates are proven leaders and scholars, having high impact in the field of veterinary medicine and research; they build careers in universities, private practices, industry, government, and other related organizations around the world.

As part of a top comprehensive university, OVC has a long history of solving complex health problems for both farm and companion animals. OVC is a fully accredited veterinary college and is ranked by Quacquarelli Symonds as first in Canada, third in North America and sixth in the world for veterinary science.

Today, the College is home to 116 faculty and veterinarians, as well as 183 regular full-time staff across four departments: Department of Biomedical Sciences; Department of Clinical Studies; Department of Pathobiology and the Department of Population Medicine; as well as the OVC Health Sciences Centre which houses the OVC Companion Animal Hospital; Large Animal Hospital; Isolation Unit; Hill’s Pet Nutrition Primary Healthcare Centre and the Mona Campbell Centre for Animal Cancer.

The OVC is fully accredited by the Council on Education of the American Veterinary Medical Association (AVMA) and the Canadian Veterinary Medical Association (CVMA). Our educational programs include the four-year professional DVM degree; BSc degrees with other colleges in Bio-Medical Sciences and Toxicology; graduate programs for graduate diploma (GDip), MSc, Master of Public Health (MPH), Master of Biomedical Sciences (MBS), PhD, and Doctor of Veterinary Science (DVSc) degrees; clinical specialists-in-training programs; and the Summer Career Opportunities and Research Exploration Program for DVM and BSc students. Students educated through OVC learn a comparative, cross-species approach to diagnostics, epidemiology, and preventive medicine to provide comprehensive, global solutions.
Areas of Expertise:

Cardiovascular Health: Cardiovascular investigations in Biomedical Sciences is dedicated to the diagnosis, treatment, teaching, and research of cardiovascular disease. Our faculty have expertise in basic cardiovascular biology, as well as human and veterinary medicine to provide an excellent multidisciplinary training environment to support and enhance basic, translational, and clinical cardiovascular studies. The department and College are dedicated to providing comprehensive cardiovascular care for humans and animals, and supports collaborative research of our core group of cardiovascular investigators, graduate and undergraduate trainees, with collaborations across the University of Guelph, Canada, and globally (for more information, please see Centre for Cardiovascular Investigations (CCVI) at http://www.uoguelph.ca/CardiovascularResearch/).

Cancer Cell Biology: Cancer researchers in the Department of Biomedical Sciences play an integral role in the University of Guelph’s Institute for Comparative Cancer Investigation (ICCI). Our collective goal is the improvement of companion animal health, the promotion of interdisciplinary cancer research, and the training of future generations of cancer care specialists and scientists. Biomedical Science cancer investigators use sophisticated model systems and strategic collaborations to explore key aspects of tumor biology relevant for translational aspects of cancer care and control. Current areas of expertise include cancer stem cells, metabolic reprogramming, anti-angiogenic therapies, and immune related anticaner strategies.

Stem Cell and Regenerative Medicine: The overall goal of this research program is to investigate, and potentially treat common, economically important livestock and companion animal diseases while simultaneously enhancing our basic understanding of tissue regeneration biology and provide translational knowledge for improving human health. Researchers study applied veterinary clinical research in domestic animals and basic research into the molecular mechanisms governing stem cell function and joint health. Ultimately, the goal of this research is in the regulation of various stem cell populations, and in the use of these cells as innovative bioengineered therapies for specific orthopedic conditions in humans and domestic animals.

Reproductive Biology: Infertility in animals and people is a growing global concern. Recent technological and biological advancements have made significant strides into manipulating the hormonal environment as well as early diagnostic screening of genetic malformations in utero.

The Province of Ontario has also made a significant commitment to provincially funding numerous infertility in vitro fertilization (IVF) clinics. Together with researchers in the Department of Biomedical Sciences, the University of Guelph is strategically positioned to train highly qualified graduates in the latest techniques and technology associated with IVF clinic function. Our graduates learn the necessary, hands-on skills through practicum placements within local IVF clinics as well as Zoo and wildlife environments, to prepare them for the variety of opportunities that exist in this human and animal health-related area.

Neuroscience: Researchers in the department of Biomedical Sciences study neurological diseases such as Alzheimer’s and related dementia, fetal alcohol syndrome, steroid-regulation of brain function and cerebrovascular diseases such as stroke. Through our extensive collaborative network both with researchers within the University of Guelph as well as nationally and internationally, research into neurodegenerative diseases is making significant headway at the OVC.

Pharmacology and Toxicology: Pharmacology and Toxicology are similar science disciplines that require an understanding of the properties and actions of chemicals. Pharmacology primarily focuses on the therapeutic effects of chemicals, particularly drugs, while toxicology places more emphasis on the adverse effects of chemicals and assessing their risks to humans and animals. Both disciplines are intimately involved in drug development for humans and veterinary species including the areas of discovery, metabolism, safety, pharmacokinetics and clinical efficacy trials. Members of the Department of Biomedical Sciences and the Ontario Veterinary College actively conduct and support research in pharmacology and toxicology.

"Our programs allow our students to be well-prepared for further studies in medical or veterinary medicine or in the field of biomedical research, graduates can also pursue any allied health profession such as dentistry, speech or physical therapy, optometry – anything” - Prof. Tarek Saleh, Chair, Department of Biomedical Sciences.

The Department of Biomedical Sciences provides unique opportunities for translating fundamental research into practical applications that enhance animal and human health. Our expertise spans several disciplines including biomechanics, cancer biology, endocrinology, neuroscience, pharmacology and toxicology, reproductive biotechnology, cardiovascular biology, and stem cell and regenerative biology.

Currently the Department has 23 faculty members, 4 adjunct faculty and 4 emeriti professors. Support is provided by research and teaching staff, and administration of the department is done through a newly developed College-level shared administration structure (Shared Administration Support, SAS).

Presently the Department has 90+ graduate students enrolled in one of several graduate degree programmes offered by the Department. These graduate programmes include the Master of Biomedical Science (MBS), Master of Science (MSc), or Doctor of Philosophy (PhD). Faculty members also supervise students in extra- or inter-departmental graduate programmes including Biophysics (MSc and PhD), Bioinformatics (MSc), or Doctor of Veterinary Science (DVSc) degrees and these joint or extra-departmental students are not included in our graduate student numbers.
RESEARCH AT THE ONTARIO VETERINARY COLLEGE

Researchers at OVC conduct innovative, collaborative research aimed at improving the health and well-being of animals, humans and ecosystems. This work covers a broad range of disciplines ranging from basic laboratory investigation to epidemiological field studies to applied clinical research in companion animals, food animals and wildlife to investigations in to veterinary medical communications and wellness within the veterinary and agricultural professions.

Our research strength stems from our collective expertise, collaborative partnerships, research infrastructure, patients, clients and supportive donors that enable us to sustain and grow a world-class research enterprise.

Some programs are categorized as core research or as globally recognized areas of research strength while others have been organized into virtual research institutes, such as the institute for Comparative Cancer Investigation, the Centre for Public Health and Zoonosis or the Cardiovascular Centre.

Research at OVC is performed within a framework of the following guiding principles: Excellence, Uniqueness, Collaboration, Innovation, Communication and Training. Our faculty, staff and students play a significant role in our research success and we are pleased to share these successes:

http://www.ovc.uoguelph.ca/research/en/aboutus/achievementsdiscoveries.asp

Research Funding in the Department of Biomedical Sciences (October 2020);
Federal: Tri-Council (CIHR, NSERC) and CFI
Provincial: OMAFRA, Ont Res Fund (CRF), Ont Inst for Cancer Res (OICR)
Non-govt Org (NGO): HSFC (Heart and Stroke Foundation), CCS (Canadian Cancer Society)
Industry: Mitacs, NSERC Alliance
90+ graduate students
$25M in research operating funding

Research listing can be viewed here: http://bit.ly/OVCbiomed

PARTNERSHIPS

Faculty within the Department of Biomedical Sciences play key roles in a number of strategic initiatives at the University of Guelph including the:

Comparative and translational regenerative Medicine Network (RM@G) is a cross-disciplinary research network within the University of Guelph (U of G) This network acts as a platform to promote collaborative work among U of G faculty members (19) conducting research within the emerging research areas of stem cells, tissue-engineering and regenerative medicine. RM@G combines forefront research with veterinary patient clinical care and pre-clinical animal models that can then be translated for use in human clinical care. The main goal is to further the development of novel therapeutics for conditions that presently lack sufficient treatment options in humans and companion animals.

Centre for Cardiovascular Investigations has broad interests that span the spectrum of cardiovascular medicine and science with a goal of understanding the mechanisms behind heart disease and to develop new therapies for the treatment of cardiovascular disease.

Centre for Public Health and Zoonoses was established in 2006 to recognize and build on the strong tradition of public health research and education at the University of Guelph. The role of CPHAZ is to coordinate existing public health research at the University of Guelph, create and support working relationships between researchers across disciplines, and advance education related to zoonoses and public health.

Institute for Comparative Cancer Investigation, which was launched in 2007, has the mission to broaden the scope of research and deepen our understanding of cancer. Collaborative researchers with the Institute span eight departments across the University including cancer biologists, veterinarians, chemists, mathematicians, computer scientists, toxicologists, psychologists, and others including from external organizations like the University of Waterloo and the University of Toronto.

GRADUATE STUDIES

In addition to providing courses in the DVM and BSc programs, the Department offers Course-based Masters (MBS), MSc and PhD programs in each of the departmental discipline fields.

The Master of Biomedical Sciences (MBS) is a course work program with a major research project or an experiential learning practicum (depending on the research area), to be completed in approximately three semesters. Students can pursue applied training in Reproductive Biotechnologies or Toxicology through practicum placements and in-house training.

Graduates who have completed the Applied Repro training have found jobs in repro-related industry positions at a success rate of 90%.

The Master of Science (MSc) program requires the preparation and defense of a research-based thesis, to be completed in approximately six semesters.

The PhD program requires the successful completion of a qualifying exam and the completion and defense of a research-based thesis, to be completed in approximately twelve semesters.
The University of Guelph is the second largest employer in Guelph, a city of approximately 130,000 people, located about an hour drive west of Toronto, Ontario. University of Guelph is a top-ranked comprehensive university in Canada with an enrolment of about 30,000 undergraduate and graduate students across over 40 academic units. The University is known for its commitment to student learning, innovative research, and collaboration with world-class partners. It is a unique place, with transformative research and teaching and a distinctive campus culture. People who learn and work here are shaped and inspired by a shared purpose: To Improve Life. Reflecting that shared purpose in every experience connected to our university positions us to create positive change, here and around the world. Our University community shares a profound sense of social responsibility, a drive for international development, and an obligation to address global issues.

The University of Guelph resides on the ancestral lands of the Attawandaron people and the treaty lands and territory of the Mississaugas of the Credit and we offer our respect to our Anishinaabe, Haudenosaunee and Métis neighbours as we strive to strengthen our relationships with them.

At the University of Guelph, fostering a culture of inclusion (https://uoguel.ph/ox2p9) is an institutional imperative. The University invites and encourages applications from all qualified individuals, including from groups that are traditionally underrepresented in employment, who may contribute to further diversification of our Institution. If you require a medical accommodation during the recruitment or selection process, please contact Occupational Health and Wellness at 519-824-4120 x52674

Learn more: www.uoguelph.ca/facultyjobs